AMENDMENTS TO THE CLAIMS

- 1. (original) A process for preparing cis- or trans-1,2-diaminocyclohexane-N,N,N',N'-tetraacetic acid which comprises the steps of
 - (a) neutralizing an aqueous solution of chloroacetic acid with a non-metal amino or hydroxy base;
 - (b) reacting cis- or trans-1,2-diaminocyclohexane with a non-metal amino or hydroxy base;
 - (c) treating the product from step (b) with a dilute solution of sodium hydroxide;
 - (d) treating the resulting product of step (c) with acid and then
 - (e) recovering the product formed.
- (original) The process of claim 1 wherein step (a) is conducted at a temperature not greater than 10°C.
- 3. (original) The process of claim 2 wherein the reaction of step (b) is at a temperature between 75°-80°C.
- 4. (currently amended) The process of claim 3, comprising the steps of:
 - (a) neutralizing chloroacetic acid in an aqueous medium with a non-metal amino or hydroxy base compound at a temperature of less than 10°C;
 - reacting said neutralized chloroacetic acid with 1,2-diaminohexane at a temperature of less than 80°C;
 - (c) adding a non-metal amino or hydroxy base to complete neutralization so as to form an aqueous mixture;
 - (d) heating the aqueous mixture to a temperature of less than 100°C;

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- filtering the mixture from (d); (e)
- treating the aqueous filtrate with hydrochloric acid until a precipitate forms, (f)
- filtering the aqueous filtrate; and then (g)
- recovering 1,2-diaminocyclohexanetetraacetic acid and optionally redissolving (h) said 1,2-diaminocyclohexanetetraacetic acid in an aqueous solution and repeating steps <u>step</u> (c).
- (previously presented) The process of claim 1 wherein the non-metal amino or hydroxy 5. base is selected from the group consisting of sodium hydroxide, tetramethyl ammonium hydroxide, tetraethylammonium bydroxide, monoethanolamine, isopropylamine, diethanolamine, 2-amino-1-propanol, 2-amino-2-ethoxy propanol and mixtures thereof
- (previously presented) The process of claim 1 wherein the non-metal amino or hydroxy 6. base in step (a) is different from that used in step (c).
- (previously presented) The process of claim 1 wherein the non-metal amino or hydroxy 7. base in step (a) is tetramethylammonium hydroxide and in step (b) ammonium hydroxide.
- (previously presented) The process of claim 1 wherein sodium hydroxide is used as 8. hydroxy base in steps (a) and (c).
- 9. (new) The process of claim 3 wherein the non-metal amino or hydroxy base is selected from the group consisting of sodium hydroxide, tetramethyl ammonium hydroxide, tetraethylammonium hydroxide, monoethanolamine, isopropylamine, diethanolamine, 2amino-1-propanol, 2-amino-2-ethoxy propanol and mixtures thereof.
- (new) The process of claim 3 wherein the non-metal amino or hydroxy base in step (a) is 10: different from that used in step (c).

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(new) The process of claim 3 wherein the non-metal amino or hydroxy base in step (a) is 11. tetramethylammonium hydroxide and in step (b) ammonium hydroxide.

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- (new) The process of claim 3 wherein sodium hydroxide is used as hydroxy base in steps 12. (a) and (c).
- (new) A process for preparing cis- or trans-1,2-diaminocyclohexane-N,N,N',N'-tetraacetic acid which comprises the steps of
 - neutralizing chloroacetic acid in an aqueous medium with a non-metal amino or (a) hydroxy base compound at a temperature of less than 10°C;
 - reacting said neutralized chloroacetic acid with 1,2-diaminohexane at a **(b)** temperature of less than 80°C;
 - adding a non-metal amino or hydroxy base to complete neutralization so as to form an aqueous mixture:
 - (d) heating the aqueous mixture to a temperature of less than 100°C;
 - (e) filtering the mixture from (d);
 - **(f)** treating the aqueous filtrate with hydrochloric acid until a precipitate forms;
 - (g) filtering the aqueous filtrate; and then
 - recovering 1,2-diaminocyclohexanetetraacetic acid and optionally redissolving (b) said 1,2-diaminocyclohexanetetraacetic acid in an aqueous solution and repeating steps (c) to (g),

wherein sodium hydroxide is used as hydroxy base in steps (a) and (c).